## What is claimed is:

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1. An injectable pharmaceutical composition comprising:

an aqueous suspension of microdroplets suitable for intravenous delivery, the microdroplets having a mean diameter between 200 Angstroms and one micron, the microdroplets comprising a substantially water-insoluble, pharmacologically acceptable liquid, a camptothecial dissolved in the water-insoluble, pharmacologically acceptable liquid, and an outer layer comprising a phospholipid.

- 2. An injectable pharmaceutical composition according to claim 1 wherein the camptothecin is selected from the group consisting of 9-nitro-20(S)-camptothecin, 9-amino-20(S)-camptothecin, 9-methyl-camptothecin, 9-chloro-camptothecin, 9-flouro-camptothecin, 7-ethyl camptothecin, 10-methyl-camptothecin, 10-chloro-camptothecin, 10-bromo-camptothecin, 10-fluoro-camptothecin, 9-methoxy-camptothecin, 11-fluoro-camptothecin, 7-ethyl-10-hydroxy camptothecin, 10,11-methylenedioxy camptothecin, and 10,11-ethylenedioxy camptothecin, and 7-(4-methylpiperazinomethylene)-10,11-methylenedioxy camptothecin.
- An injectable pharmaceutical composition according to claim 1 wherein the camptothecin is selected from the group consisting of 9-nitro-20(S)-camptothecin, 9-amino-20(S)-camptothecin, 7-ethyl-10-(4-(1-piperdino)-1-piperdino)-carbonyloxy-camptothecin, 7-ethyl-10-hydroxy-20(S)-camptothecin, 10,11-methylenedioxy-20(S)-camptothecin, 9-chloro-20(S)-camptothecin, 9-bromo-20(S)-camptothecin, 9-hydroxy-20(S)-camptothecin, and 11-hydroxy-20(S)-camptothecin.
  - 4. An injectable pharmaceutical composition according to claim 1 wherein the camptothecin is 9-nitro-20(S)-camptothecin.
- 1 5. An injectable pharmaceutical composition according to claim 1 wherein the pharmaceutical composition has a pH less than 7.
- 1 6. An injectable pharmaceutical composition according to claim 1 wherein the pharmaceutical composition has a pH less than 6.

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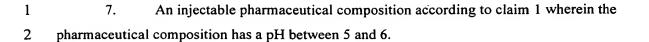
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- 1 8. An injectable pharmaceutical composition according to claim 1 wherein the 2 pharmaceutical composition comprises an isotonic solution.
- 1 9. An injectable pharmaceutical composition according to claim 1 wherein the pharmaceutical composition comprises mannitol or trehalose.
- 1 10. An injectable pharmaceutical composition according to claim 1 wherein the composition has been thermally sterilized.
  - 11. An injectable pharmaceutical composition according to claim 1 wherein the composition has been thermally sterilized by heating to at least 121°C for at least 15 minutes.
  - 12. An injectable pharmaceutical composition according to claim 1 wherein the pharmaceutically acceptable organic liquid is selected from the group consisting of alkanes, dialkyl ethers, long-chain esters, hydrophobic esters, biocompatible silicones, biocompatible high molecular weight fluorocarbons, oil-soluble vitamins and volatile liquid anesthetics.
  - 13. An injectable pharmaceutical composition according to claim 1 wherein the camptothecin is present in amounts of up to about 25% w/w.
- 1 l4. An injectable pharmaceutical composition according to claim 1 wherein the camptothecin is present in amounts of from about 0.05% w/w to about 5% w/w.
- 1 15. An injectable pharmaceutical composition according to claim 1 wherein the 2 camptothecin is present in amounts of from about 0.1% w/w to about 1% w/w.
- 1 16. An injectable pharmaceutical composition according to claim 1 wherein the 2 camptothecin is present in amount of about 0.2% w/w.

1	17.	An injectable pharmaceutical composition according to claim 1 wherein the
2	camptothecin is present in amounts of up to about 5% w/w.	
		<i>,</i>
1	18.	An injectable pharmaceutical composition comprising:
2	a dispersion in an aqueous carrier so ution comprising one or more pharmaceutically	
3	acceptable tonicity modifier agents and liquid droplets of micrometer to submicrometer, the	
4	droplets comprising	
5	a substantially water-insoluble, pharmaceutically acceptable lipophilic liquid vehicle	
6	a camptothecin dissolved in the lipophilic liquid vehicle, and	
7	an outer layer surrounding the droplet comprising at least one membrane-forming	
8/	amphipathic lipid,	
9	wherei	n upon thermal sterifization the dispersion does not aggregate, flocculate,
10	agglomerate, or coalesce, and the droplets do not grow in size above a volume weighted	
11	mean diameter of 10 µm.	
1	19.	An injectable harmaceutical composition comprising:
2	an aqu	eous carrier solution comprising one or more pharmaceutically acceptable
3	tonicity modifier agents;	
4	a dispe	rsion of liquid droplets of a first size distribution, the liquid droplets
5	comprising	
6		a substantially water-insoluble, pharmaceutically acceptable lipophilic liquid
7	vehicle,	
8		solid particles of a camptothecin of a second size distribution, and
9		an outer layer surrounding the droplet comprising at least one membrane-
10	forming amphi	pathic lipid;
11	wherei	n the first size distribution is in the range of submicrometer to micrometers,
12	and the second size distribution is smaller than the first size distribution; and	
13	wherein upon thermal sterilization, the dispersion does not aggregate, flocculate,	
14	agglomerate, or coalesce, and the droplets do not grow in size above a volume weighted	
15	mean diameter	of 10 μm.
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membrane-forming amphipathic lipid comprises a phospholipid.

An injectable pharmaceutical composition according to claim 18 wherein the

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1 21. An injectable pharmaceutical composition according to claim 20 wherein the 2 phospholipid is selected from the group consisting of saturated phospholipids, unsaturated 3 phospholipids, synthetic phospholipids, natural phospholipids, and combinations thereof.

An injectable pharmaceutical composition according to claim 20 wherein the phospholipid is selected from the group consisting of natural and synthetic lipids, hen egg-derived phospholipid, egg phospholipid, purified egg phospholipid, soy phospholipid, dimyristoyl lecithin, didodecanoyl lecithin, dioeoyl lecithin, dilinoeoyl lecithin, alphapalmito-beta-oleoyl lecithin, alphapalmitoyl-beta-linoleoyl lecithin, alpha-oleoyl-beta-palmitoyl lecithin, diarachidonyl lecithin, alphapalmito-beta-myristoyl lecithin, dimyristoyl phosphatidic acid, dipalmitoyl phosphatidic acid, distearoyl phosphatidic acid, phosphatidyl serine, phosphatidyl inositol, dimyristoyl phosphatidyl glycerol, dipalmitoyl phosphatidyl glycerol, dioctadecanoyl phosphatidyl ethanolamine, dioleoyl phosphatidyl ethanolamine, dihexadecyl phosphatidyl ethanolamine, dilauryl phosphatidyl ethanolamine, dimyristoyl phosphatidyl ethanolamine, dipalmitoyl phosphatidyl ethanolamine, Lipoid E80, Lipoid ES, Lipoid 90H, and Lipoid 100H.

- 23. An injectable pharmaceutical composition according to claim 20 wherein the phospholipid comprises Lipoid E80.
- 24. An injectable pharmaceutical composition according to claim 18 wherein the outer layer further comprises cholesterol.
- 25. An injectable pharmaceutical composition according to claim 18 wherein the membrane-forming amphipathic lipid is present in amounts of from 0.2% w/w to about 5% w/w.
- 1 26. An injectable pharmaceutical composition according to claim 18 wherein the 2 membrane-forming amphipathic lipid is present in amounts of from 1% w/w to about 5% 3 w/w.
- 1 27. An injectable pharmaceutical composition according to claim 18 wherein the 2 membrane-forming amphipathic lipid is present in amounts of about 4% w/w.





- An injectable pharmaceutical composition according to claim 18 wherein the lipophilic liquid vehicle is selected from the group consisting of vegetable oils, animal oils, synthetic oils, semi-synthetic oils, soybean oil, medium chain triglycerides, long chain triglycerides, triglycerides of C8 to C12 saturated fatty acids, triglycerides of C14 to C22 saturated fatty acids, triglycerides of C14 to C22 unsaturated fatty acids, and combinations thereof.
- 1 29. An injectable pharmaceutical composition according to claim 18 wherein the 2 lipophilic liquid vehicle is selected from the group consisting of soybean oil, triglycerides of 3 C8 to C12 saturated fatty acids, and combinations thereof.
- 1 30. An injectable pharmaceutical composition according to claim 18 wherein the lipophilic liquid and the membrane-forming amphipathic lipid further comprise cholesterol.

